

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085159 A1

(51) International Patent Classification⁷: **C07C 35/16**,
279/00

(21) International Application Number:
PCT/KR2004/001982

(22) International Filing Date: 6 August 2004 (06.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2004-0014833 5 March 2004 (05.03.2004) KR

(71) Applicant (for all designated States except US):
POSTECH FOUNDATION [KR/KR]; San 31, Hy-
oja-dong, Nam-gu, Pohang-si, Kyungsangbuk-do 790-784
(KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHUNG, Sung-Kee**
[US/KR]; Kyosu Apt. 9-201, #756, Jigok-dong, Nam-gu,
Pohang-si, Kyungsangbuk-do 790-751 (KR). **JEON,**
Ock-Younm [KR/KR]; Jangan Town 121-1502, Bun-
dang-dong, Bundang-gu, Seongnam-si, Kyungki-do

463-907 (KR). **MAITI, Kaustabh Kumar** [IN/KR];
Nakwon Apt. 4-506, Hyoja-dong, Nam-gu, Pohang-si,
Kyungsangbuk-do 790-330 (KR). **YU, Seok-Ho** [KR/KR];
Green 2-cha Apt. 215-1303, Jigok-dong, Nam-gu, Po-
hang-si, Kyungsangbuk-do 790-752 (KR).

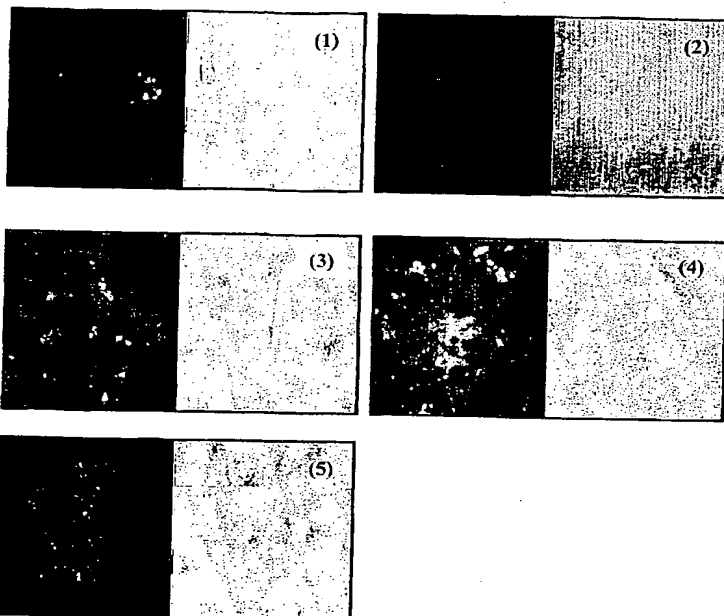
(74) Agents: **JANG, Seongku** et al.; 19th Fl., KEC Building,
#275-7 Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: INOSITOL-BASED MOLECULAR TRANSPORTERS AND PROCESSES FOR THE PREPARATION THEREOF



(57) Abstract: Inositol derivatives in accordance with the present invention are effective in significantly enhancing the transportation of various therapeutic molecules across a biological membrane, which may include the plasma membrane, nuclear membrane or blood-brain barrier.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report